

## New Technical Training Network

***“The class contains information that would be beneficial to any machinery analyst who is serious about major machinery protection and vibration diagnostics.”***

*Walt McNutt, Chevron Refining*

*by Rett Jesse  
Machinery Diagnostics Training Manager  
and Jerry Pritchard  
Product Training Manager*

**F**or 38 years, Bently Nevada has been the world leader in rotating machinery information systems and services because of our commitment to research and innovation. Today, Bently Rotor Dynamics Research Corporation (BRDRC) continues its pioneering research in the field of rotor dynamics. BRDRC's research is incorporated into products that fill real needs and have lasting value, and is the foundation of our training courses.

We have divided our Technical Training department into three training groups to better serve you. Our training network consists of Machinery Diagnostics Training, Product Training and Field Training.

### Machinery Diagnostics Training

The Data Acquisition, Machinery Diagnostics and Machinery Diagnostics Workshop courses are designed to build upon and reinforce each other. Attending these courses, you acquire information gained from BRDRC's research in the field of rotor dynamics.

Data Acquisition teaches the fundamentals of obtaining credible data for machine analysis. The topics in this course range from Vibration Transducer Operation and Selection to Computer Aided Data Acquisition. The Machinery Diagnostics course covers the critical concepts necessary to describe malfunctions within a rotating

machine. Topics include Fundamental Synchronous Rotor Response, Single and Multi-plane Balance Response, Preloads, Rotor-to-Stator Rubs, Fluid-Induced Instabilities and Shaft Crack Detection. You will be able to practice your machinery diagnostic skills in the Machinery Diagnostics Workshop as you examine actual field cases of rotating machinery malfunctions. You will diagnose the machine malfunction from plots you produce from vibration data.

The Vibration Analysis for Power Plants course is specifically designed to utilize the skills gained in the Machinery Diagnostics Course to analyze rotating machinery found in a power plant environment.

### Product Training

Proper installation, operation and maintenance of our products is crucial to getting the most out of these systems. Our Instrumentation and Controls program focuses on the 3300 Monitoring System. Transducer Installation and Maintenance (scheduled for July 1994) provides the knowledge and skills necessary for proper installation and maintenance of the transducers which supply the information vital to proper machinery analysis. 3300 Installation and Maintenance teaches you proper techniques for performance verification, trouble-shooting and maintenance of the on-line monitoring system. 3300 Interfacing to Computers uses Bently Nevada's TDM2/DDM2 System to move data to the people throughout your organization who need the information. Our Product Training courses will continue to expand to encompass

self-paced training programs as well as instructor-led courses.

### Field Training

Our expanded 1994 training schedule gives you more flexibility to plan your training. We will provide training courses in locations throughout the United States and around the world. In addition, any of our training courses can be customized for presentation at your facility. Experienced Product Service and Machinery Diagnostic Service personnel are available at all of our hotel courses and at your facility. Bently Nevada Corporation is ready to train your personnel in what they need to know, when and where they need it. Resources focused exclusively on your needs enhances your ability to protect and manage your machines.

### Technical Training Network

We have focused our training resources in several strategic areas to better serve you. All three groups serve as one network to provide quality training that is uniform and consistent, no matter where you are located or in what environment you decide the training should take place.

Bently Nevada's Technical Training Network will:

1. Teach you how to properly install, operate, trouble-shoot and maintain your Bently Nevada products.
2. Teach you how to properly acquire and interpret data necessary for successful diagnosis of your machine's operating condition.
3. Provide training on products and machinery diagnostics when and where you need it — in the format you need.
4. Provide testing on all courses at your request.

For more information on our current seminar dates, refer to page 30. ■